

1/25

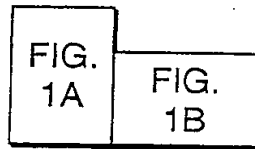


FIG. 1

MORALES, KLR, ETH-SIOH-1 IN CDC13

EXPL S3PUL

SAMPLE		DEC. & VT	
DATE	FEB 27 98	DFRQ	499.699
SOLVENT	CDC 13	DN	HL
FILE	EXP	DPWR	20
ACQUISITION		DOF	6
STFRQ	499.699	DM	NNN
TN	111	DMM	C
AT	3.277	DMF	200
NP	39296	DSEQ	
SW	5996.1	DRES	1.0
FB	3400	HOMO	N
BS	16	DEC2	
TPWR	63	DFRQ2	0
PW	4.7	DN2	
DL	0	DPWR2	1
TOF	0	DOF2	0
NL	400	DM2	N
CT	160	DMM2	C
ALOCK	N	DMF2	200
GAIN	NOT USED	DSEQ2	
FLAGS		DRES2	1.0
11	N	HOMO2	N
LN	N	PROCESSING	
DP	Y	16	6.30
HS	NN	WTFILE	
DISPLAY		PROC	FT
SP	-138.2	FN	NOT USED
WP	5133.1	MATH	R
V\$	8848		
SC	0	WERR	
WC	250	WEXP	
NIMM	20.53	WBS	
LS	33.57	WNT	
RFL	4131.0		
RFP	3627.8		
TH	7		
INS	1.000		
NM	PH		

FIG. 1A

09971852-100301

F0500T-25814560

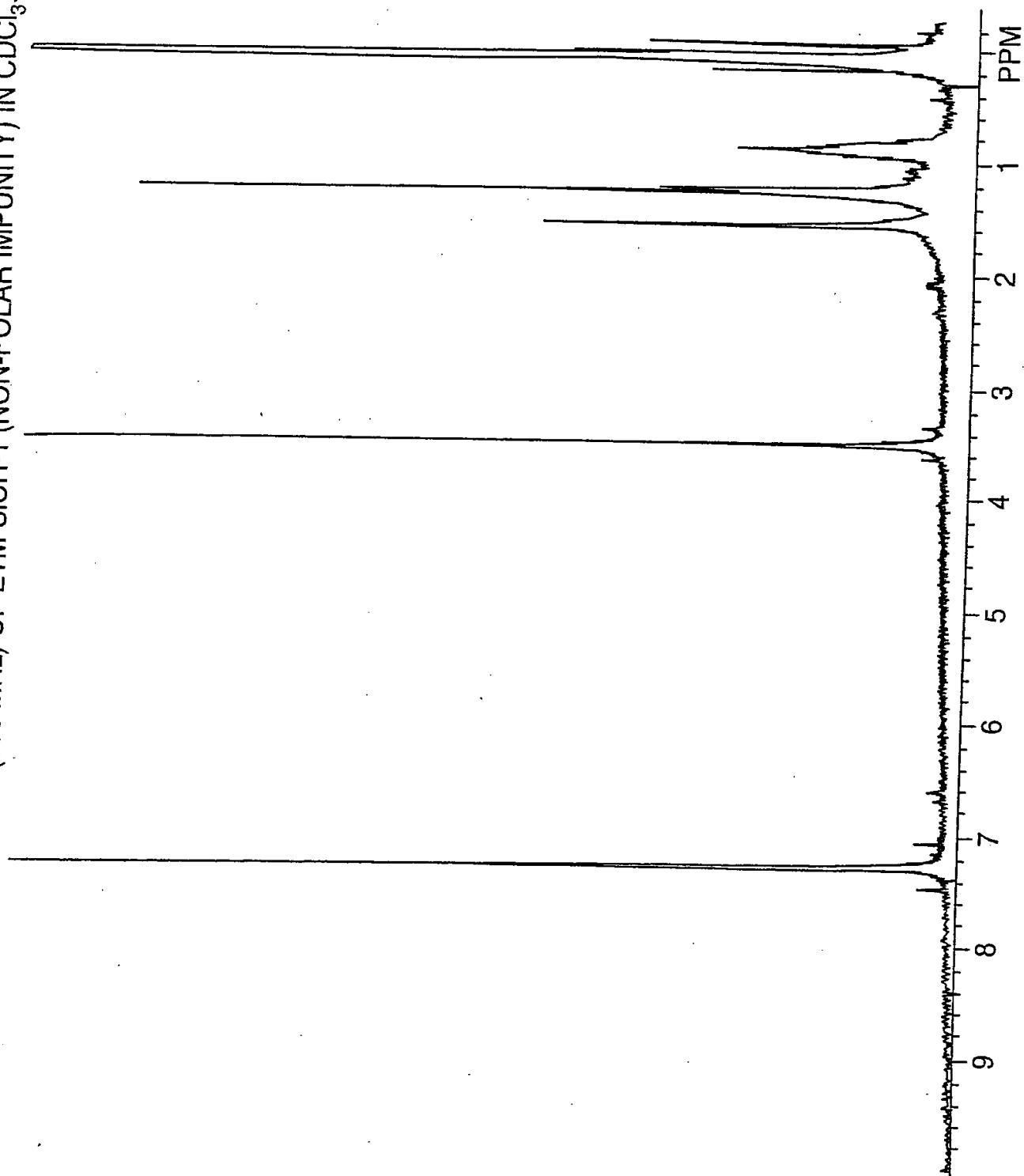
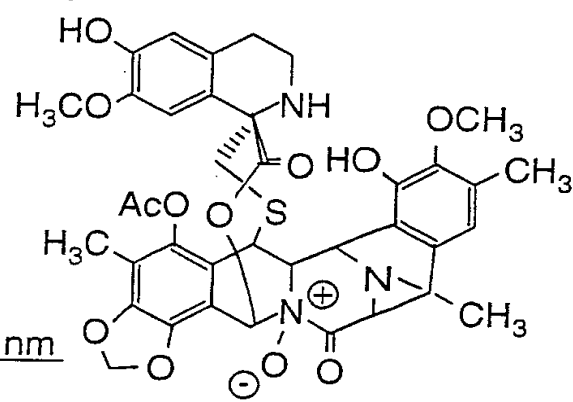
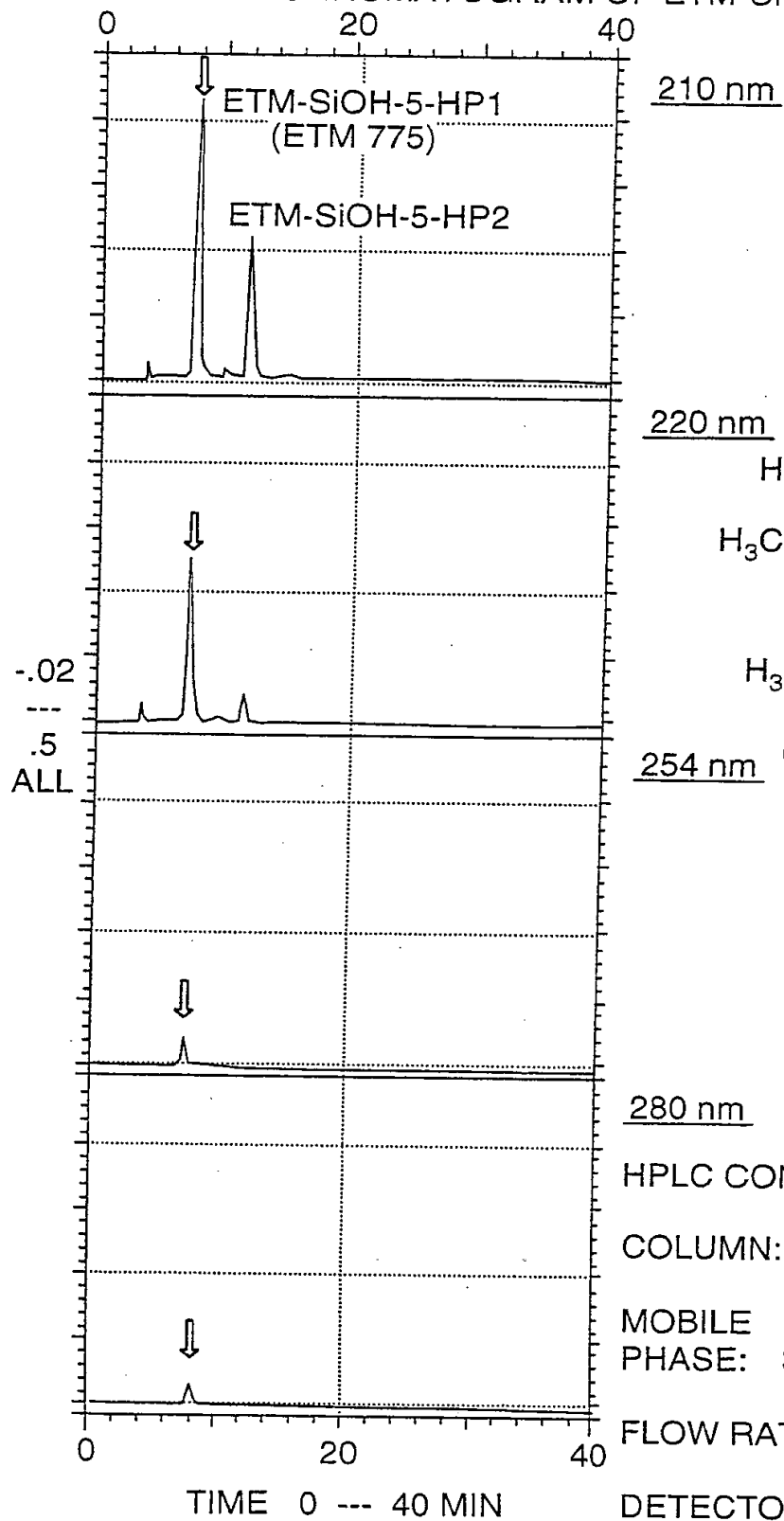
H NMR SPECTRUM (500 MHz) OF ETM-SiOH-1 (NON-POLAR IMPURITY) IN CDCl_3 .

FIG. 1B

3/25

HPLC CHROMATOGRAM OF ETM-SiOH-4 (ETM 775)



HPLC CONDITIONS

COLUMN: Phenomenex/Ultracarb
5 ODS. ID 150 x 10 mm

MOBILE PHASE: 3:1 MeOH/H₂O 0.02 M NaCl

FLOW RATE: 2 mL/min

FIG. 2

4/25

HPLC CHROMATOGRAM OF ETM-SiOH-3 (ETM 305)

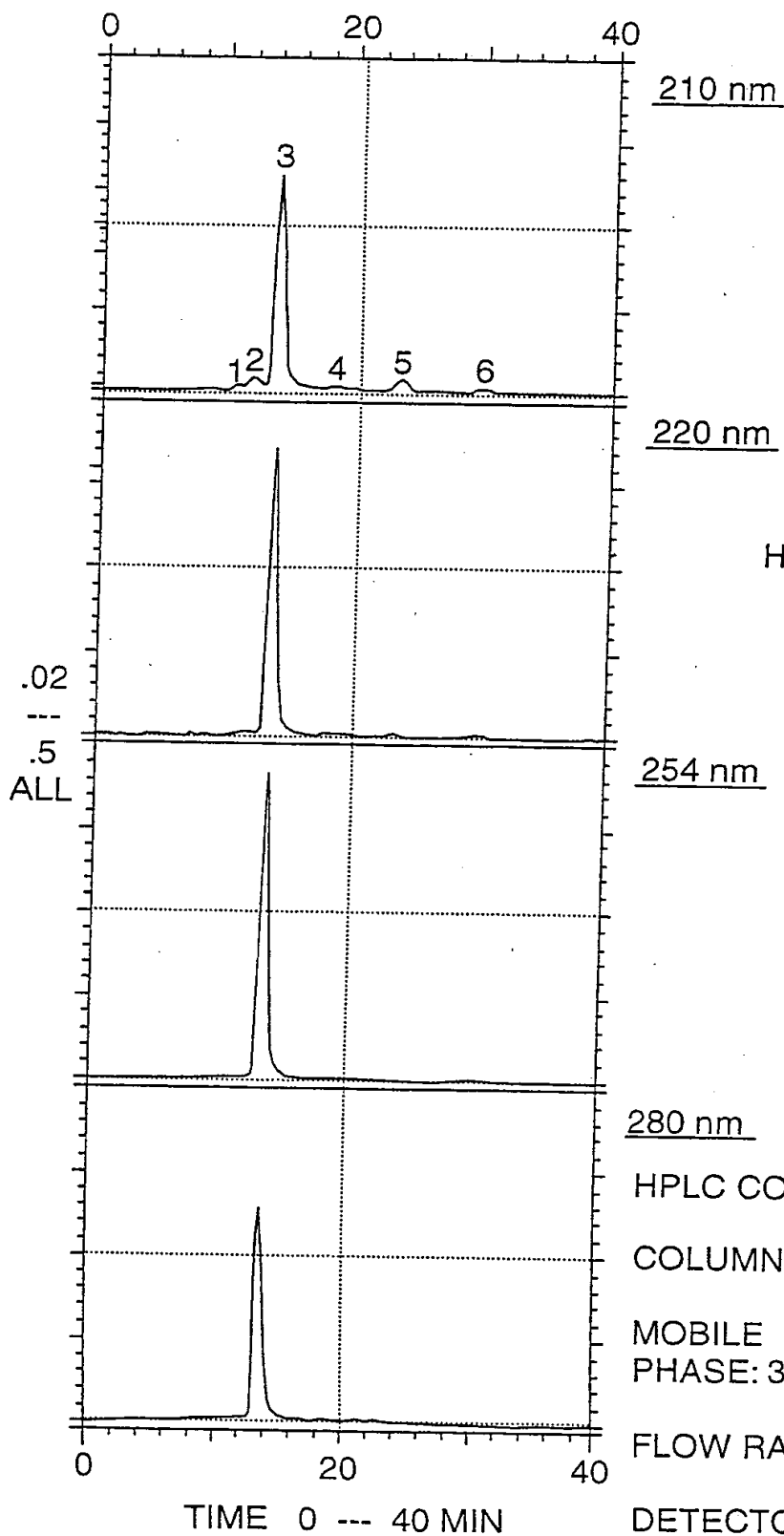
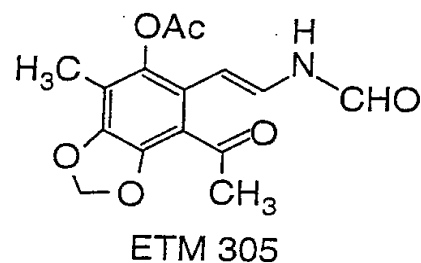


FIG. 3



HPLC CONDITIONS

COLUMN: Phenomenex/Ultracarb
5 ODS. ID 150 x 10 mm

MOBILE
PHASE: 3:1 MeOH/H₂O 0.02 M NaCl

FLOW RATE: 1mL/min

DETECTOR: DAD

5/25

HPLC CHROMATOGRAM OF ETM-SiOH-2 (TRACE METABOLITES).

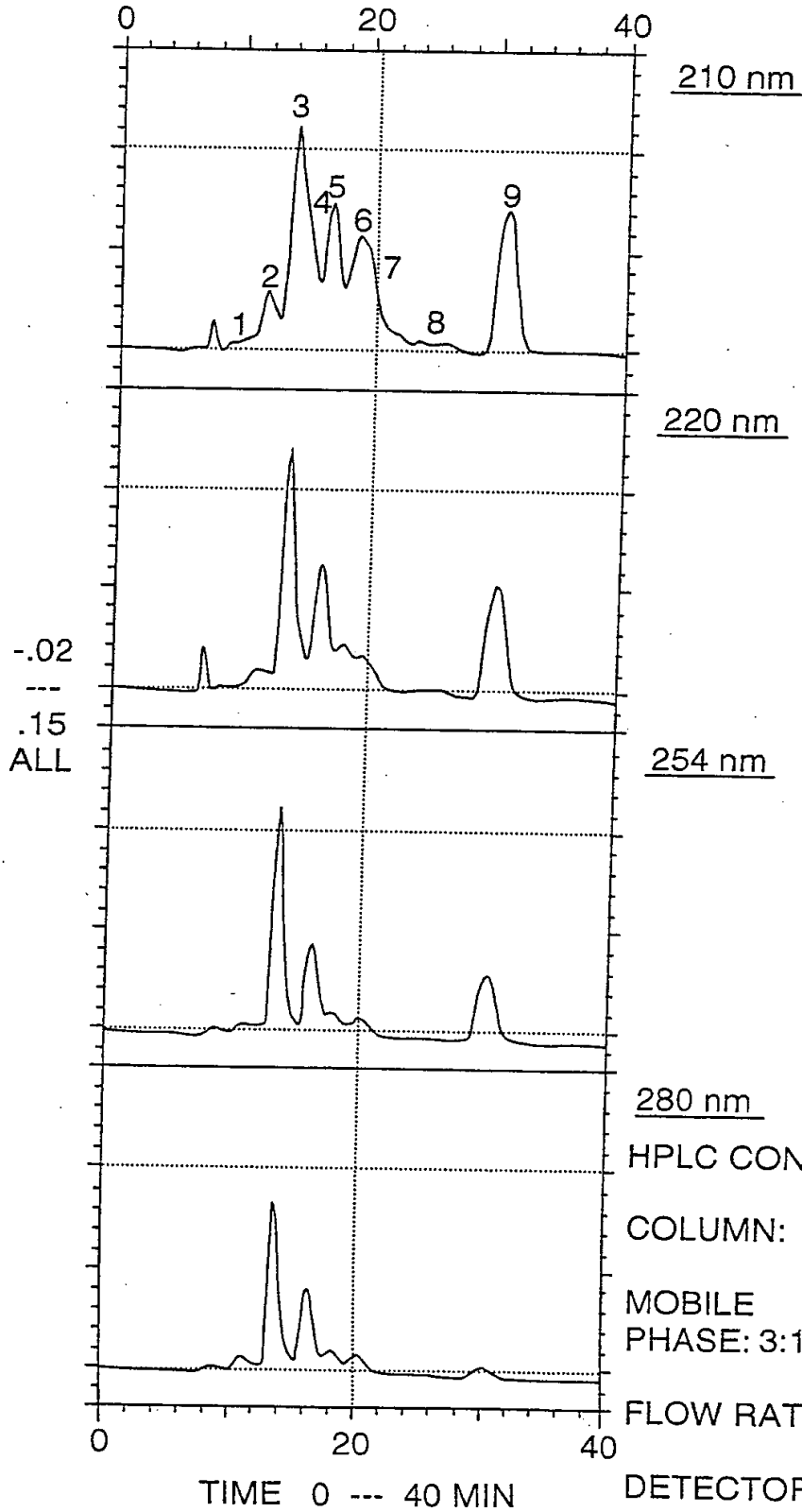


FIG. 4

HPLC CONDITIONS

COLUMN: Phenomenex/Ultracarb
5 ODS. ID 150 x 10 mm

MOBILE

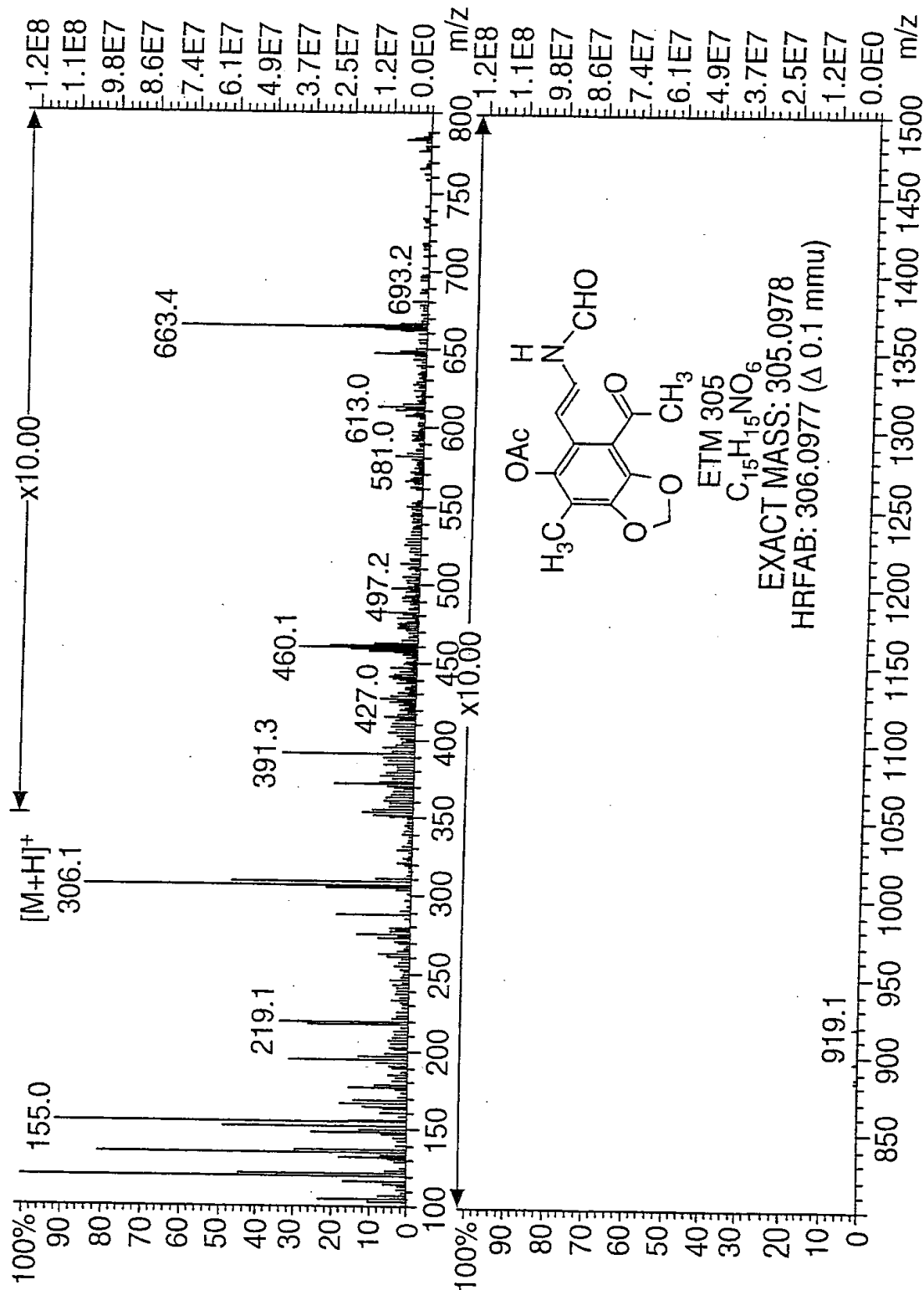
PHASE: 3:1 MeOH/H₂O 0.02 M NaCl

FLOW RATE: 1mL/min

DETECTOR: DAD

105001" 25814660

LRFAB MASS SPECTRUM OF ETM 305 IN M.B. (MAGIC BULLET⁴)
FILE: ETMSIOH4HP1 IDENT:2 ACQ: 16-DEC-1997 12:43:40 +0:45 CAL:CS121697
ZAB-SE FAB+ MAGNET BpV: 15.3V TIC:2105487744 FLAGS:HALL
FILE TEXT: MORALES ETM-SIOH-4-HP1 IN M.B.

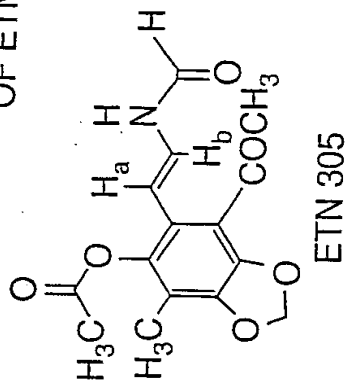


6/25

FIG. 5

T0600T" 258T4660

H NMR SPECTRUM (750 Mhz)
OF ETM 305 IN CD₃OD.



*NUMBER IN PARENTHESIS
CORRESPONDS TO δ IN Et 743.

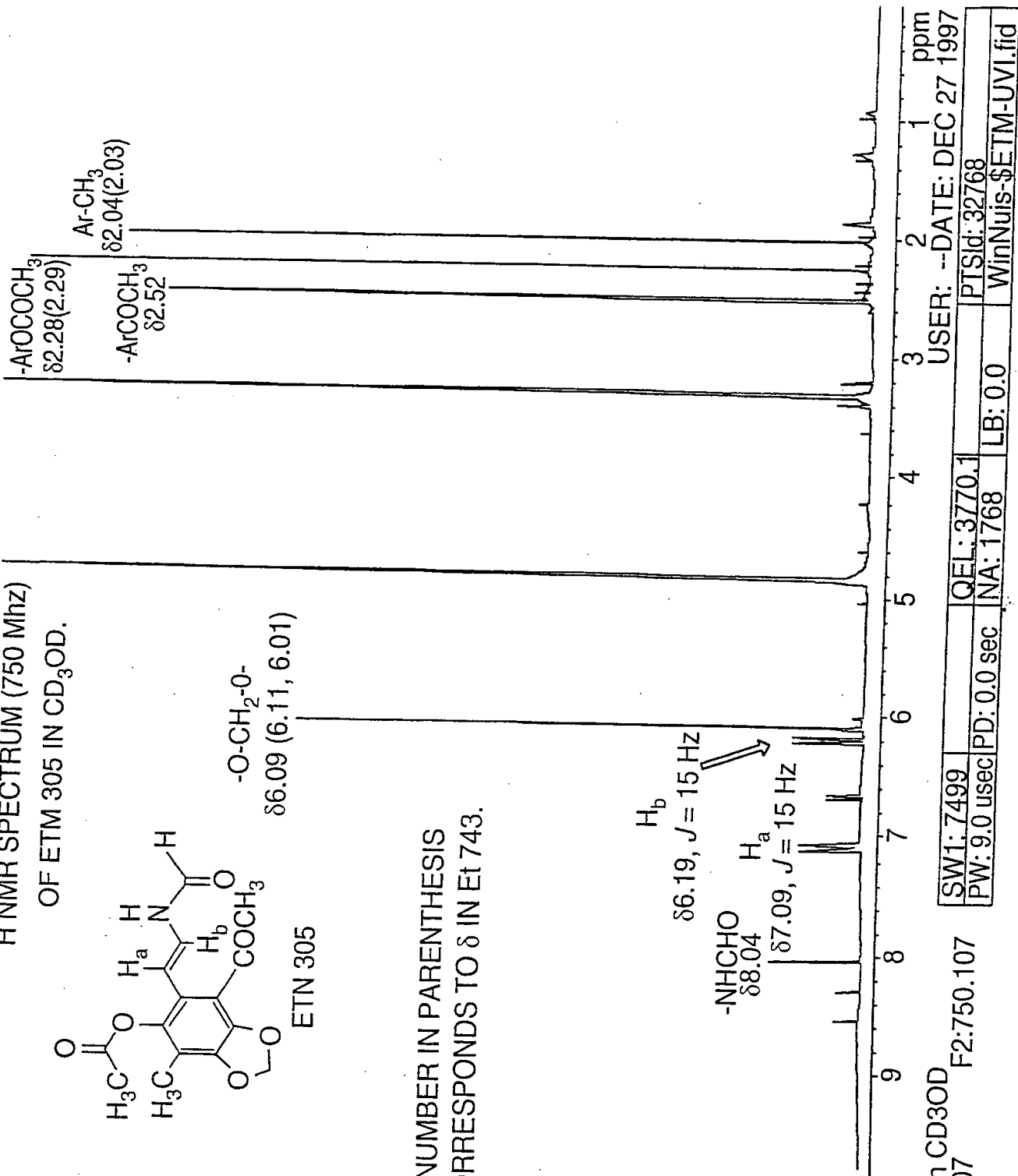


FIG. 7

1-UV in CD3OD
750.107
s2puf

SW1: 7499 F2:750.107
PW: 9.0 usec PD: 0.0 sec
QEL: 3770.1
NA: 1768
LB: 0.0
USER: --DATE: DEC 27 1997
PTSID: 32768
WinNuis-\$ETM-UVI.fid

TOE00T-258T4660

FAB/MS/MS SPECTRUM OF ETM 305.

FILE:MS9289 IDENT:1 SMO(1,7) PKD(7,3,7,0.00%,0.0,0.00%,F,F) SPEC(HEIGHTS, CENTROID) ACQ:13-FEB-1>
 70-4SE FAB+ E2B2 BpM:306 BpV:31.1V TIC:124301384 FM:306.10 FLAGS:NORM
 FILE TEXT: MORALES ETM-UV MSMS ON 306.1 CELL 0.5 HE 90% MORALES ETM-UV MSMS ON 306.1 CELL 0.5 HE>

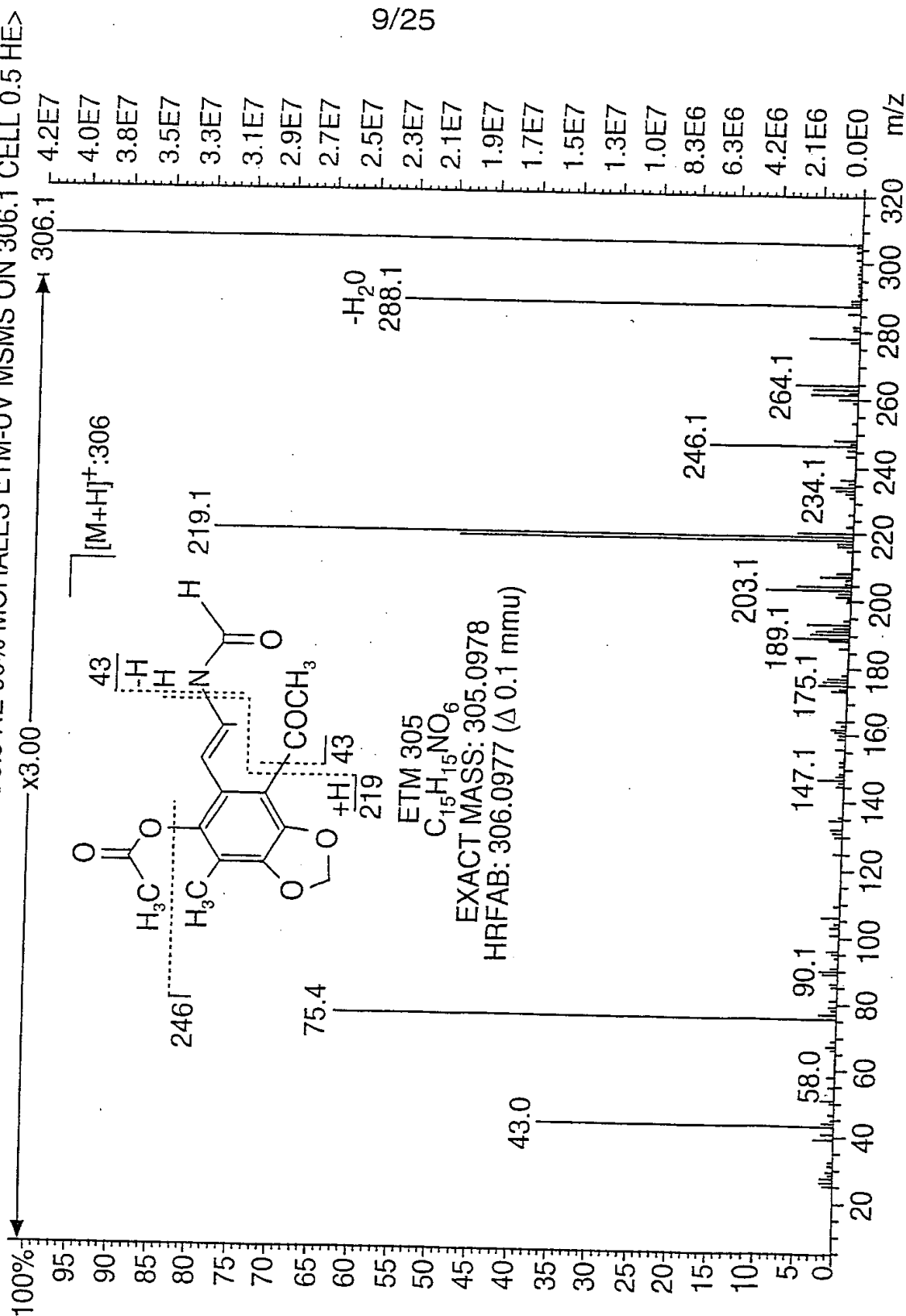


FIG. 8

FOE00T" 258T/660

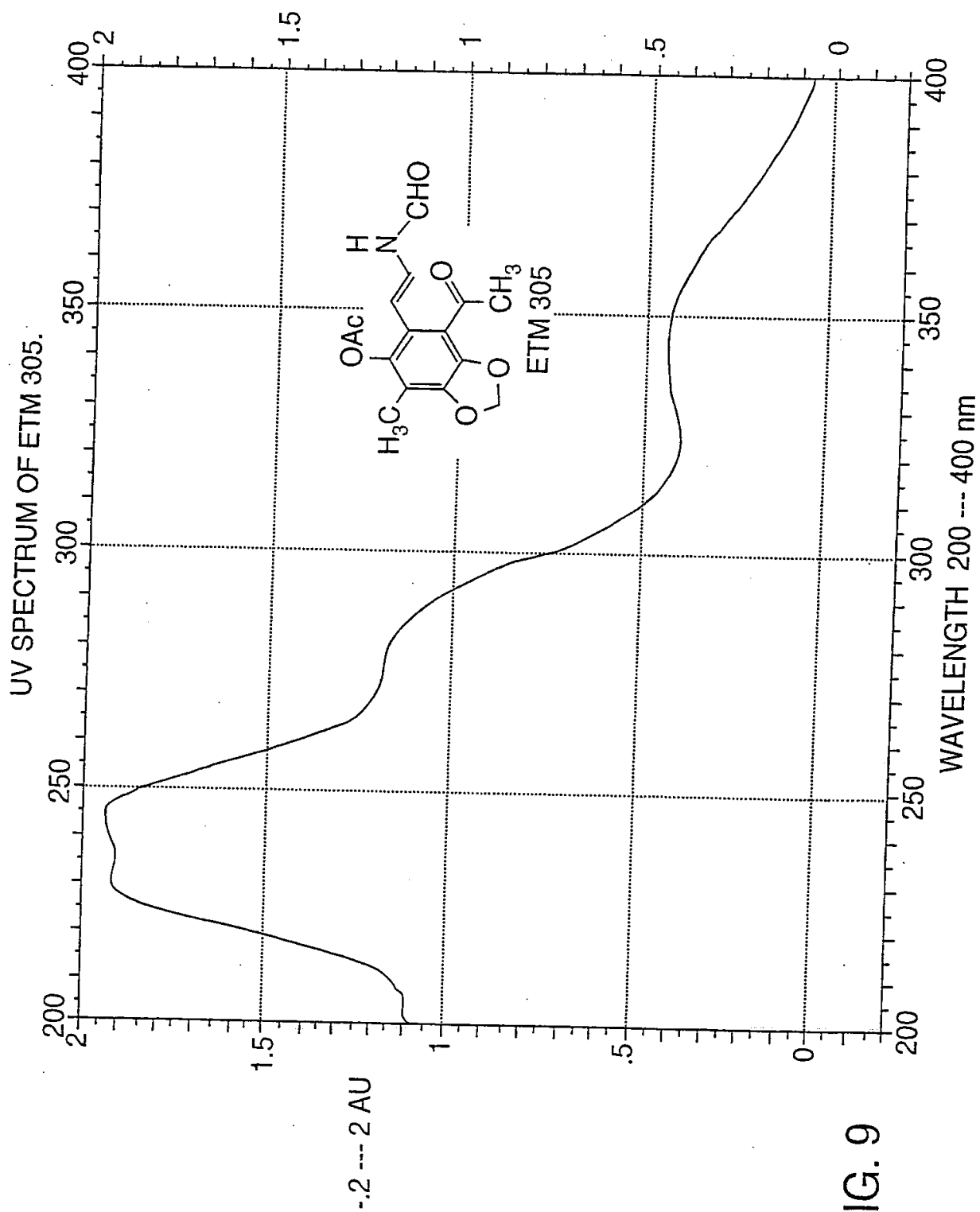


FIG. 9

11/25

UV SPECTRUM OF ETM (PHARMAMAR).

INT OF WINDOW 39: UV APEX SPECTRUM OF PEAK 7.82 OF PICO-M2.D

UV. APEX SPECTRUM OF PEAK 7.82 OF PICO-M2.D

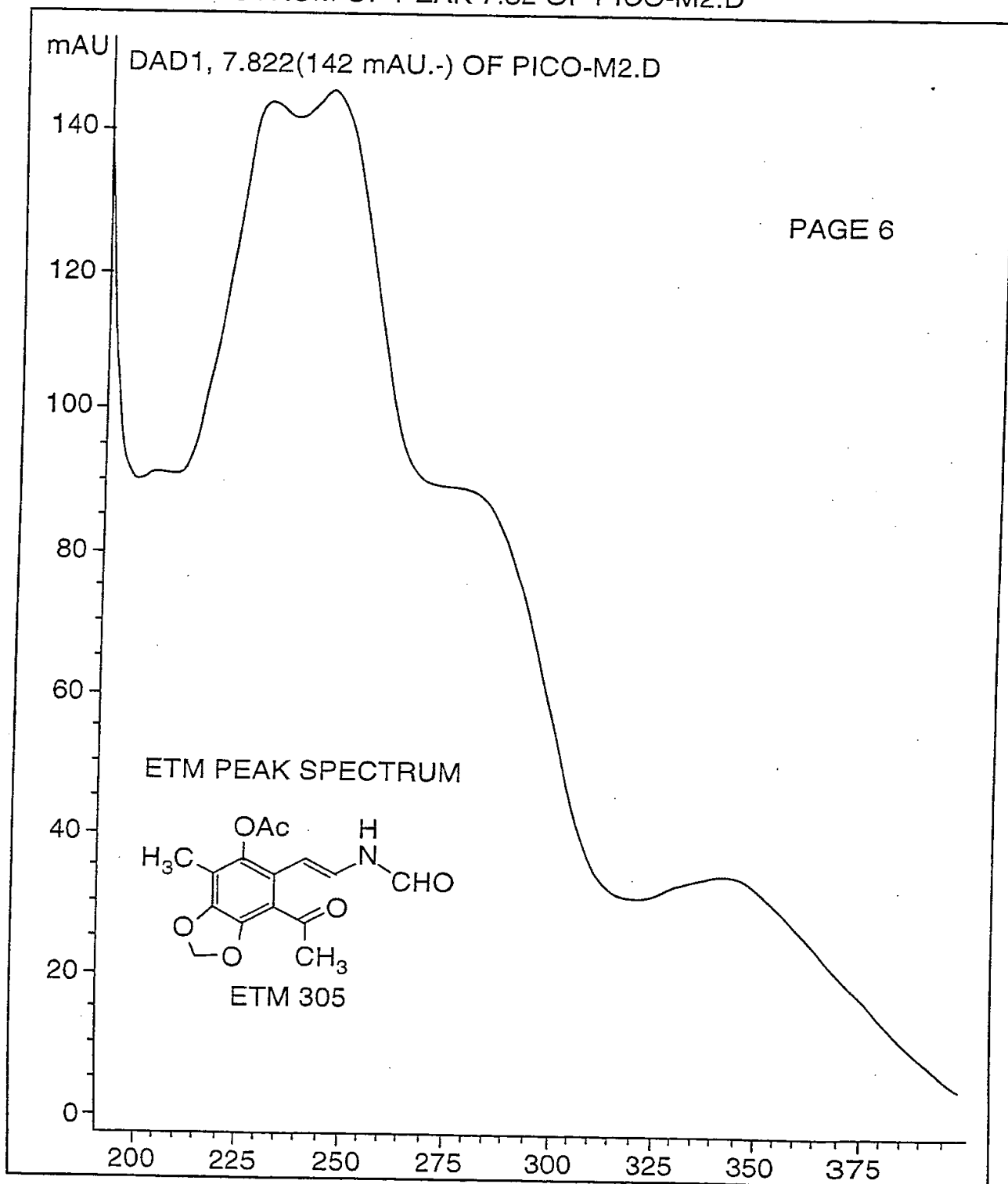


FIG. 10

12/25

LRFAB MASS SPECTRUM OF ETM 775 IN M.B.

FILE: ETMSIOH5HP1 IDENT:2 ACQ: 16-DEC-1997 12:46:41 +1:00 CAL:CSI121697
 ZAB-SE FAB+ MAGNET BpV: 15.3V TIC:1626444160 FLAGS:HALL
 FILE TEXT: MORALES ETM-SIOH-5-HP1 IN M.B.

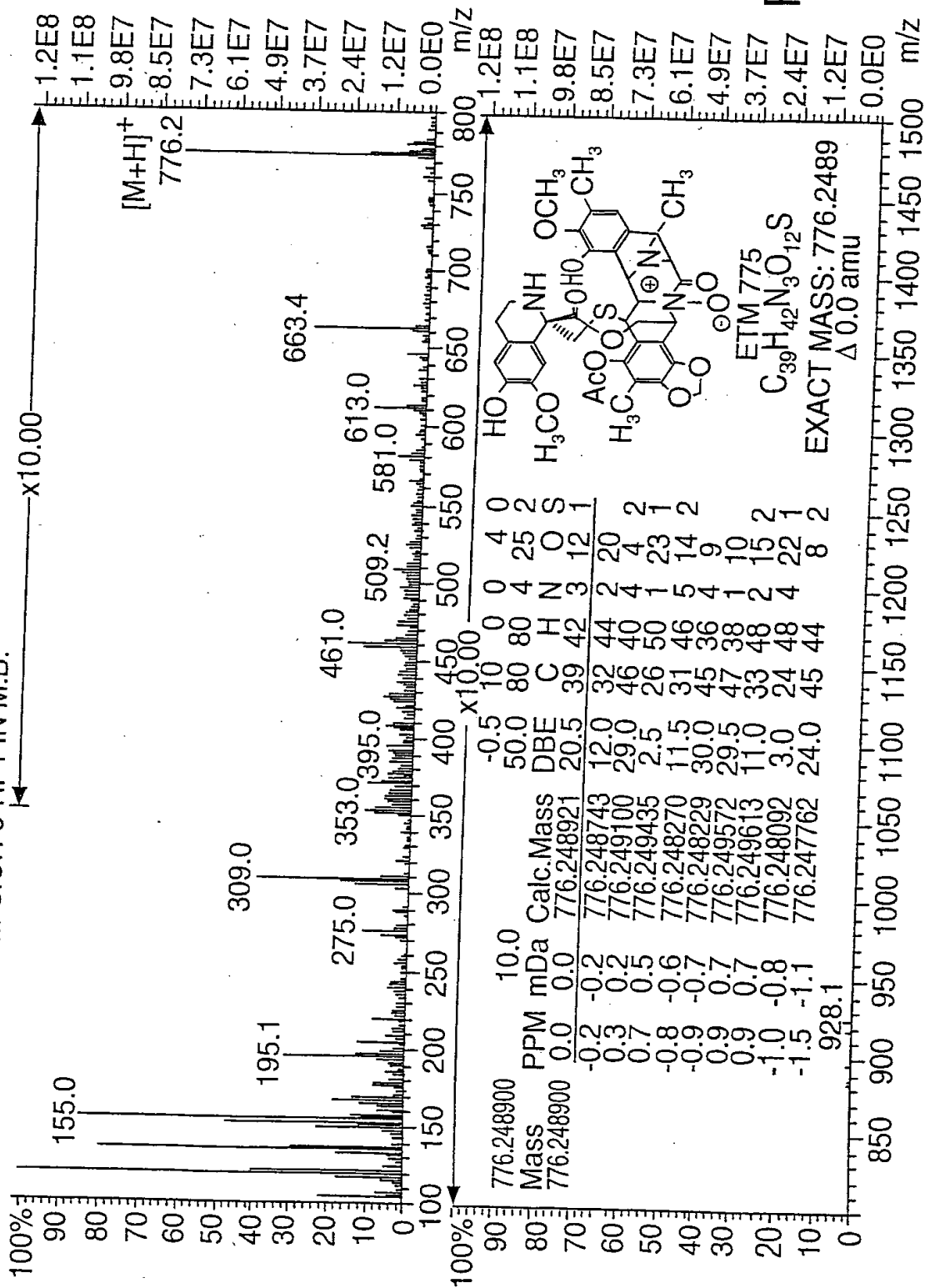


FIG. 11

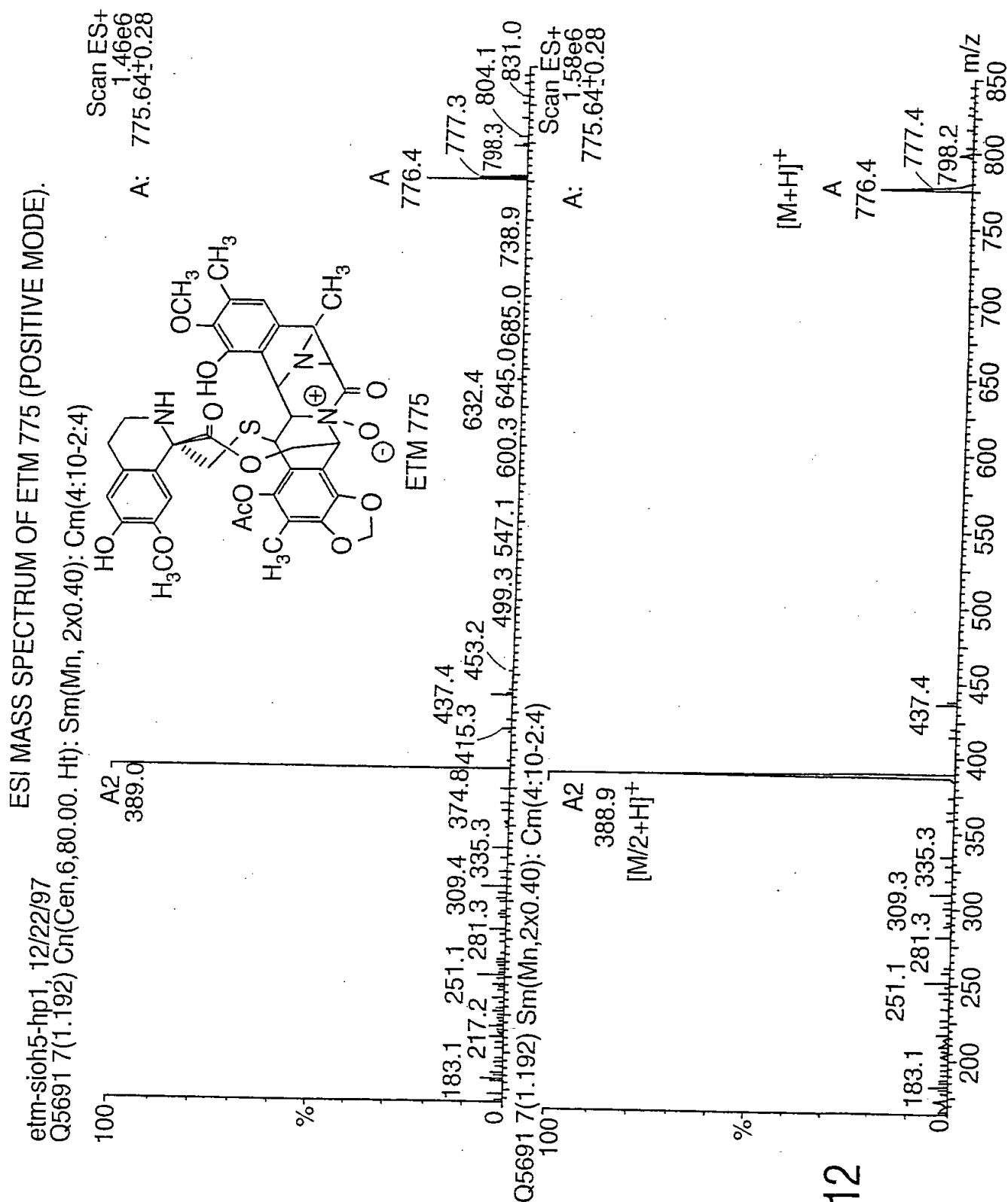
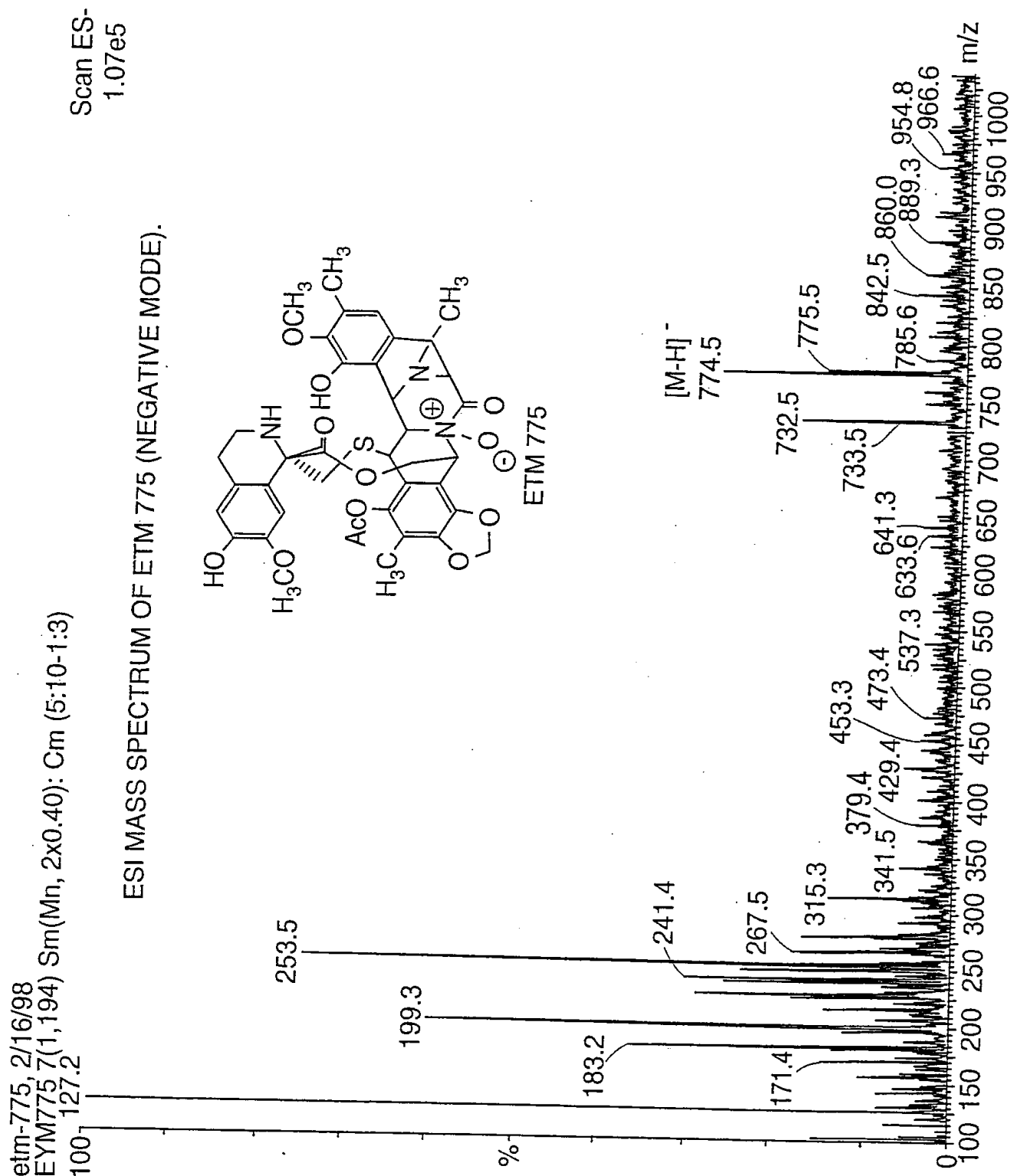
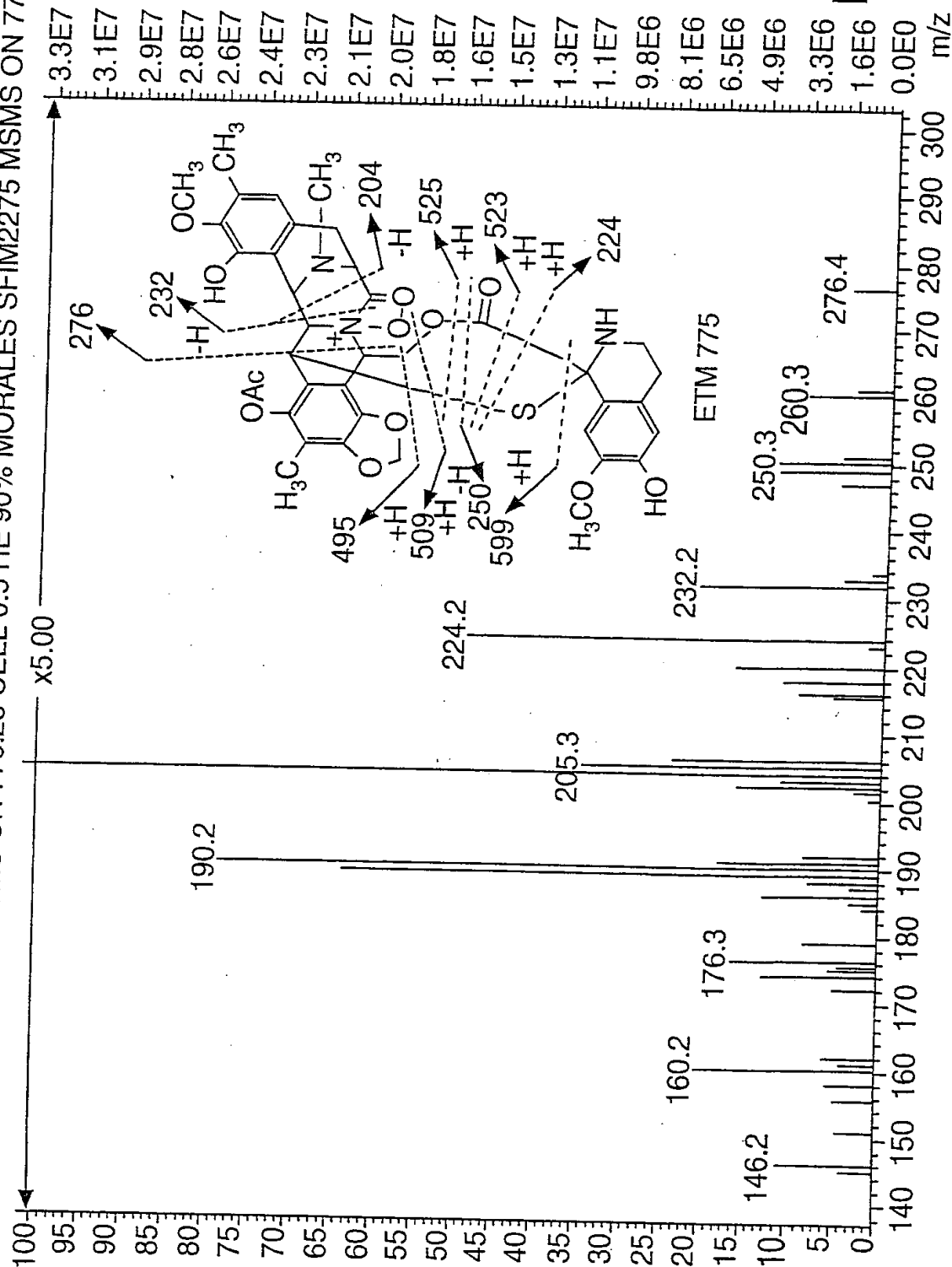


FIG. 12



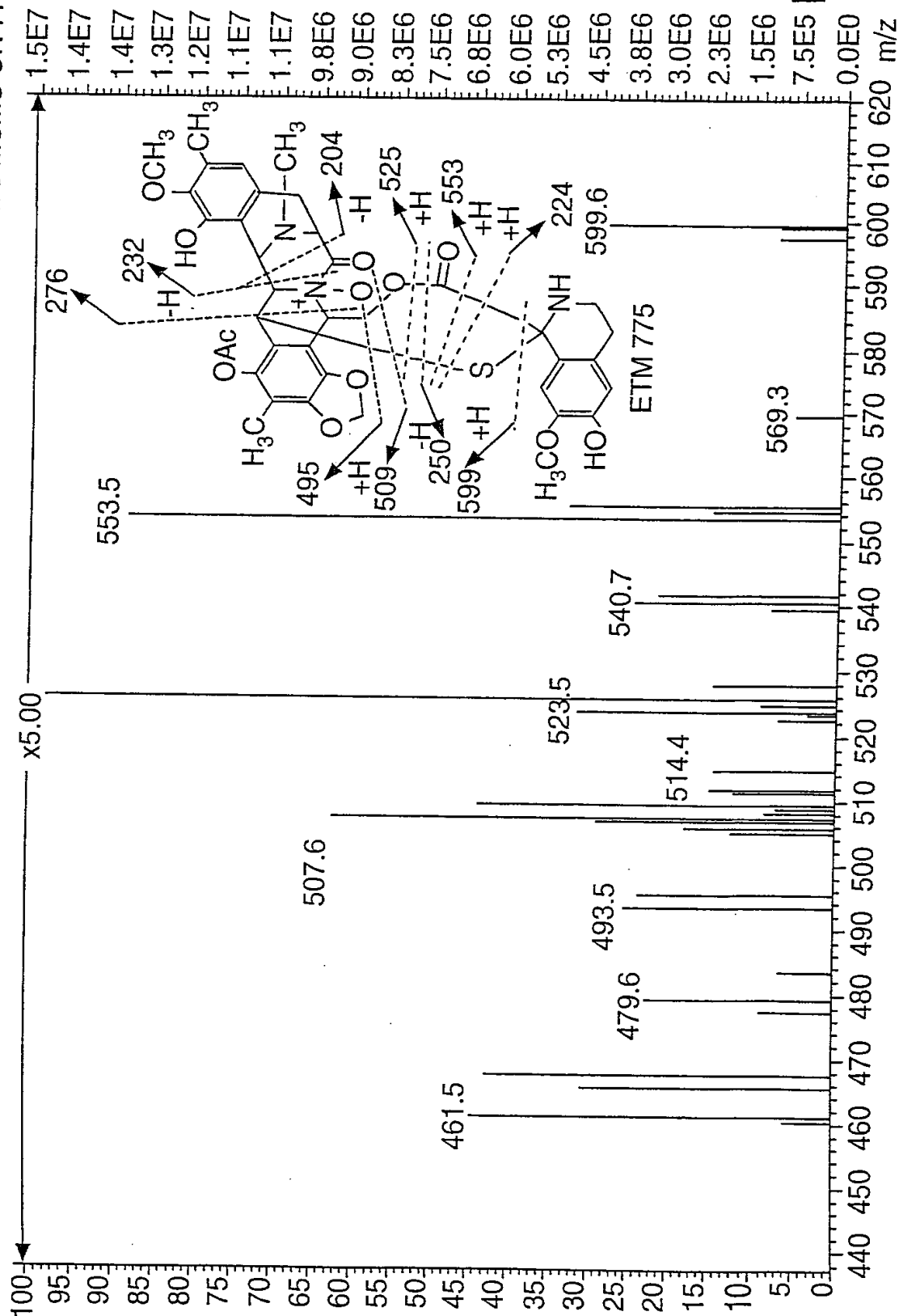
FAB/MS/MS SPECTRUM OF ETM 775 (m/z 138-302).
 FILE: MS9082 IDENT:1 SMO(1,5) PKD (5,3,5,0.00%,0.0,0.00%,F,F) SPEC (HEIGHTS, CENTROID) ACQ:3-DEC-97>
 70-4SE FAB+ E2B2 BpM:777 BpV:146.3V TIC:371164064 FN:776.25 FLAGS:NORM
 FILE TEXT: MORALES SFIM2275 MSMS ON 776.25 CELL 0.5 HE 90% MORALES SFIM2275 MSMS ON 776.25 CELL>



FOE00T 258T4660

FAB/MS/MS SPECTRUM OF ETM 775 (m/z 440-620).

FILE: MS9082 IDENT:1 SMO(1,5) PKD (5,3,5,0.00%,0.0,0.00%,F,F) SPEC (HEIGHTS, CENTROID) ACQ:3-DEC-97<
70-4SE FAB+ E2B2 BpM:777 BpV:146.3V TIC:371164064 FN:776.25 FLAGS:NORM
FILE TEXT: MORALES SFIM2275 MSMS ON 776.25 CELL 0.5 HE 90% MORALES SFIM2275 MSMS ON 776.25 CELL>



FOE001" 258T4660

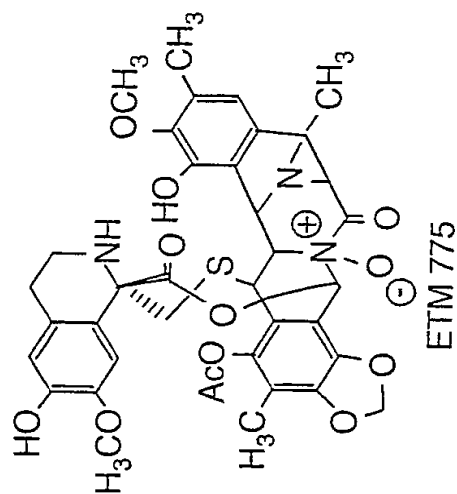
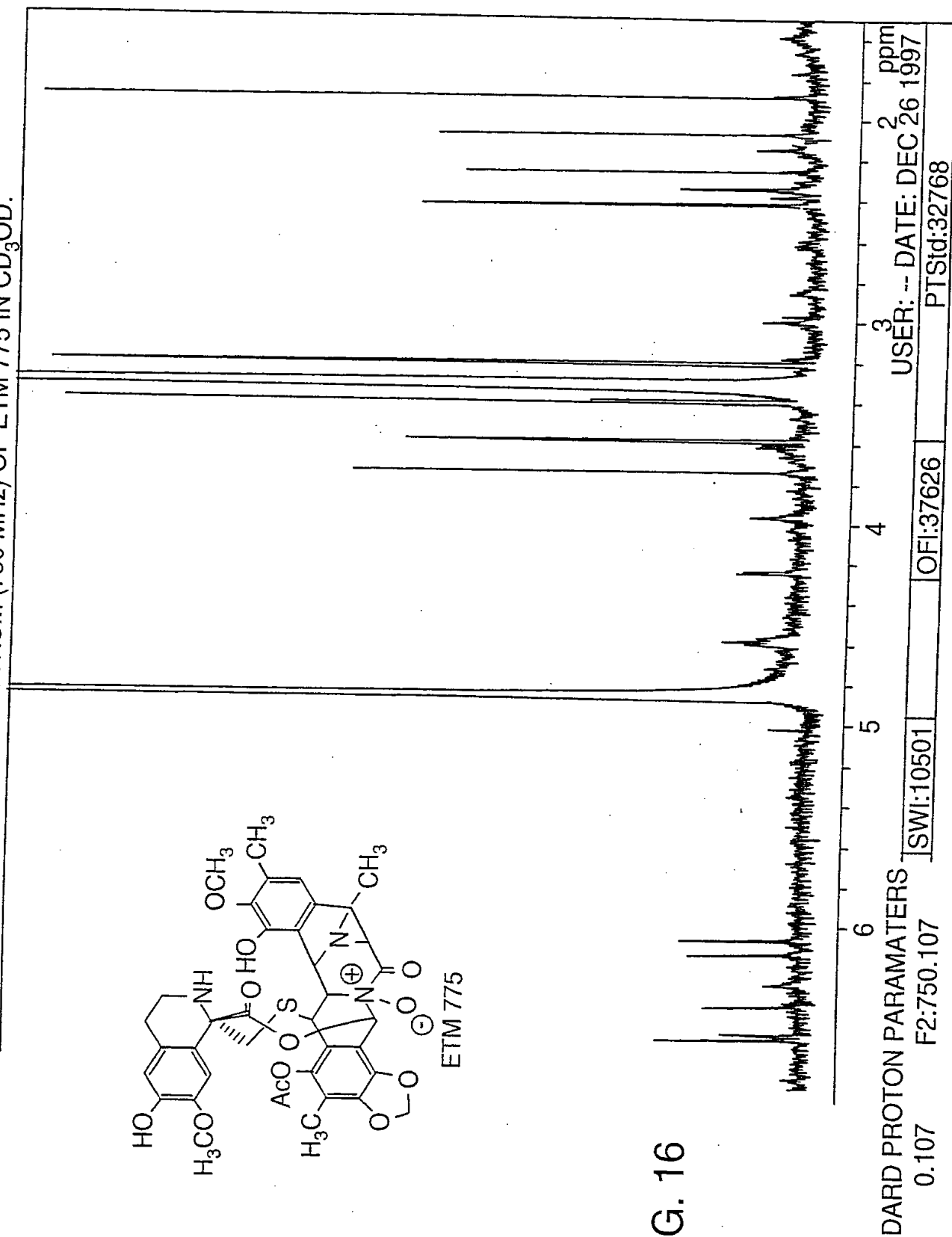
H NMR SPECTRUM (750 MHz) OF ETM 775 IN CD₃OD.

FIG. 16



UV SPECTRUM OF ETM 775.

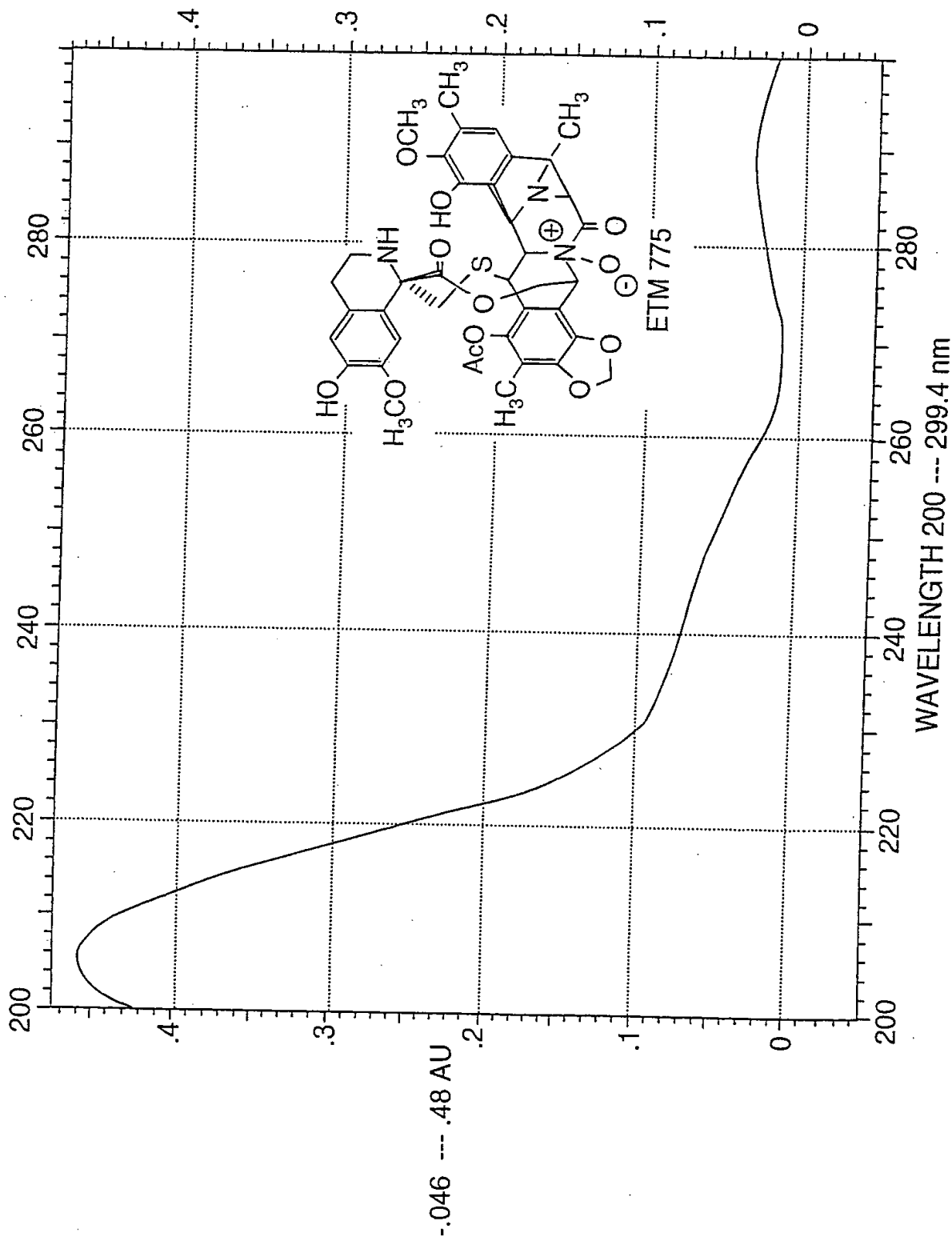


FIG. 17

19/25

HPLC CHROMATOGRAM OF M1 METABOLITE (ETM 305).

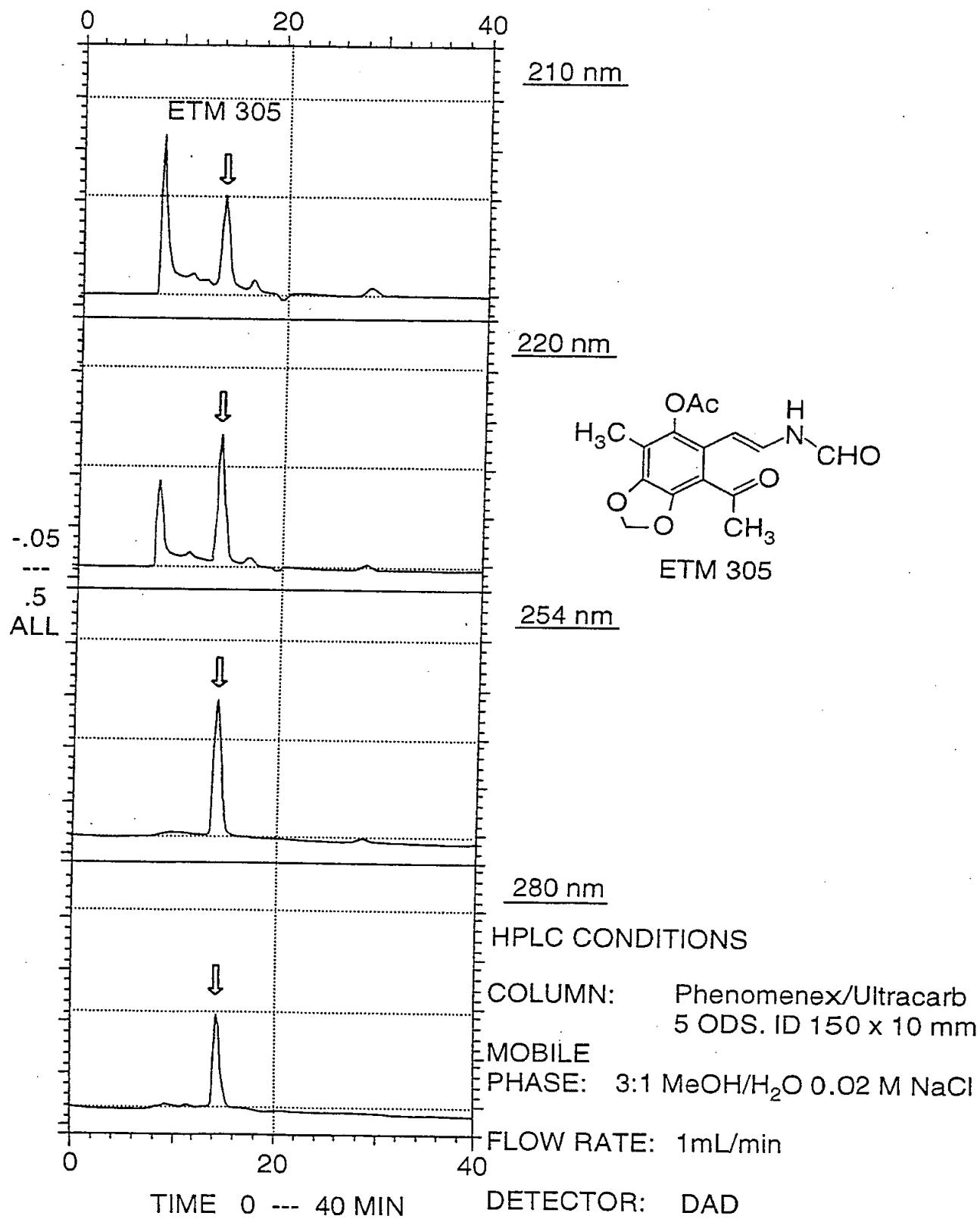


FIG. 18

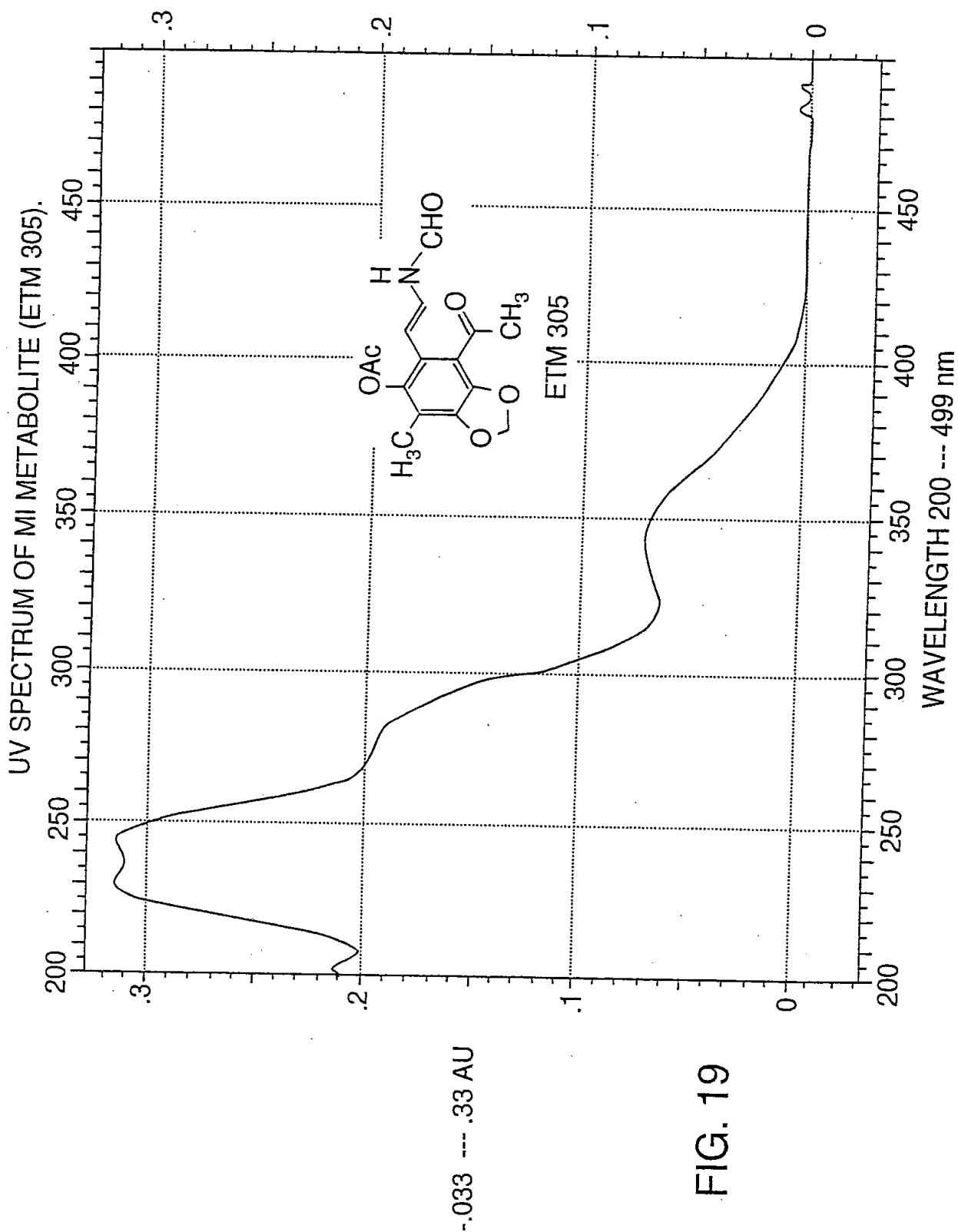


FIG. 19

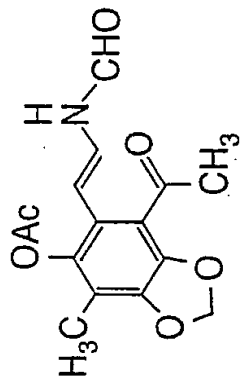
M1-ODS-2. 4/1/98
M1ODS2 10 (1.692) Sm(Mn,2x0.40): Cm(6:14-1:4)

ESI MASS SPECTRUM OF M1 METABOLITE (ETM 305).

328.2

100
[M+Na]⁺
%

Scan ES+
3.71e5



ETM 305

125.9

260.2

142.0

219.1

[M+H]⁺

229.2

288

306.2

344.2

437.4

415.4

363.2

237.2

149.0

815.6

FIG. 20

100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 m/z

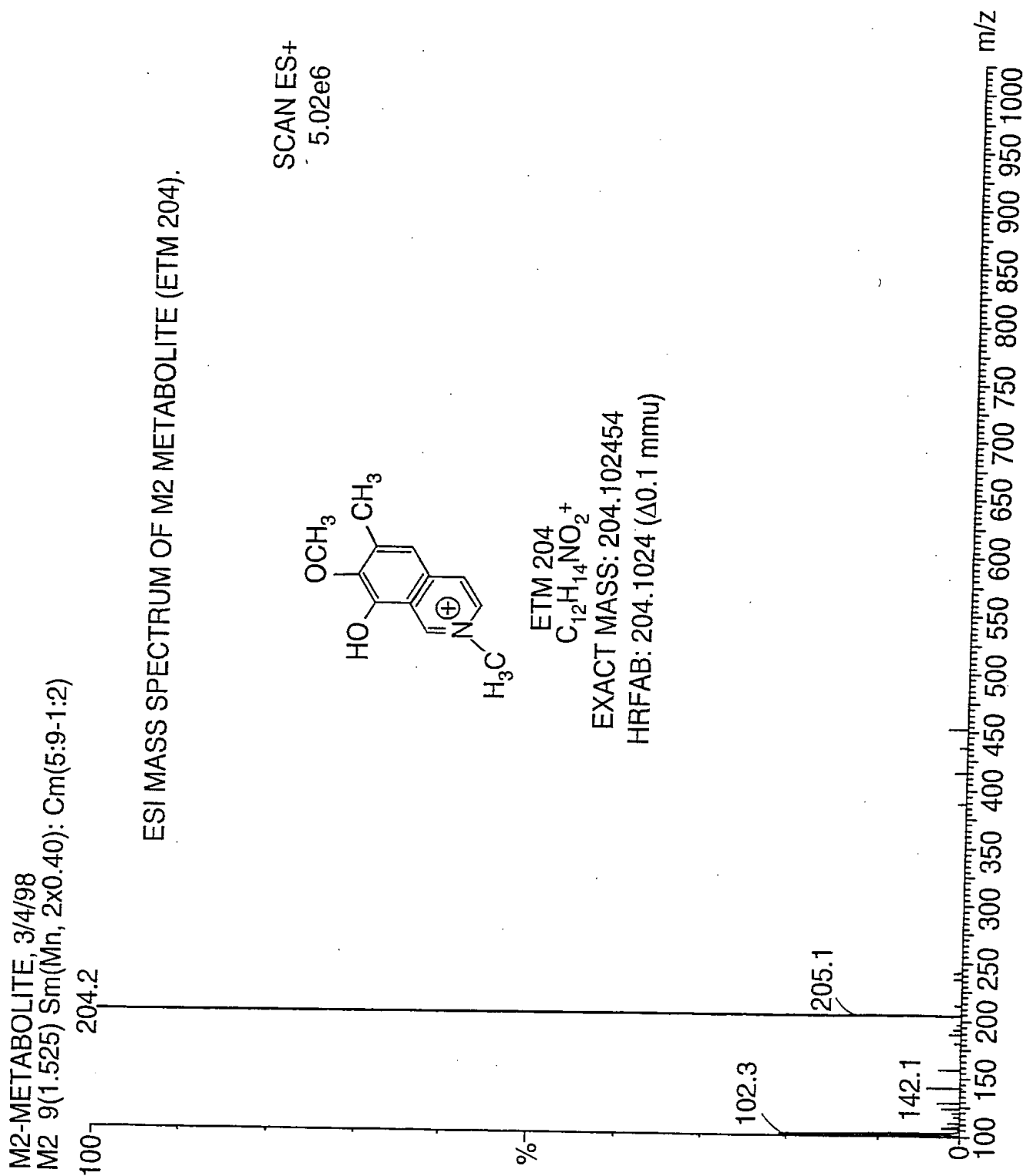


FIG.
22AFIG.
22B

FIG. 22

MORALES, KLR, MZ IN CD3OD

EXPL S2PUL

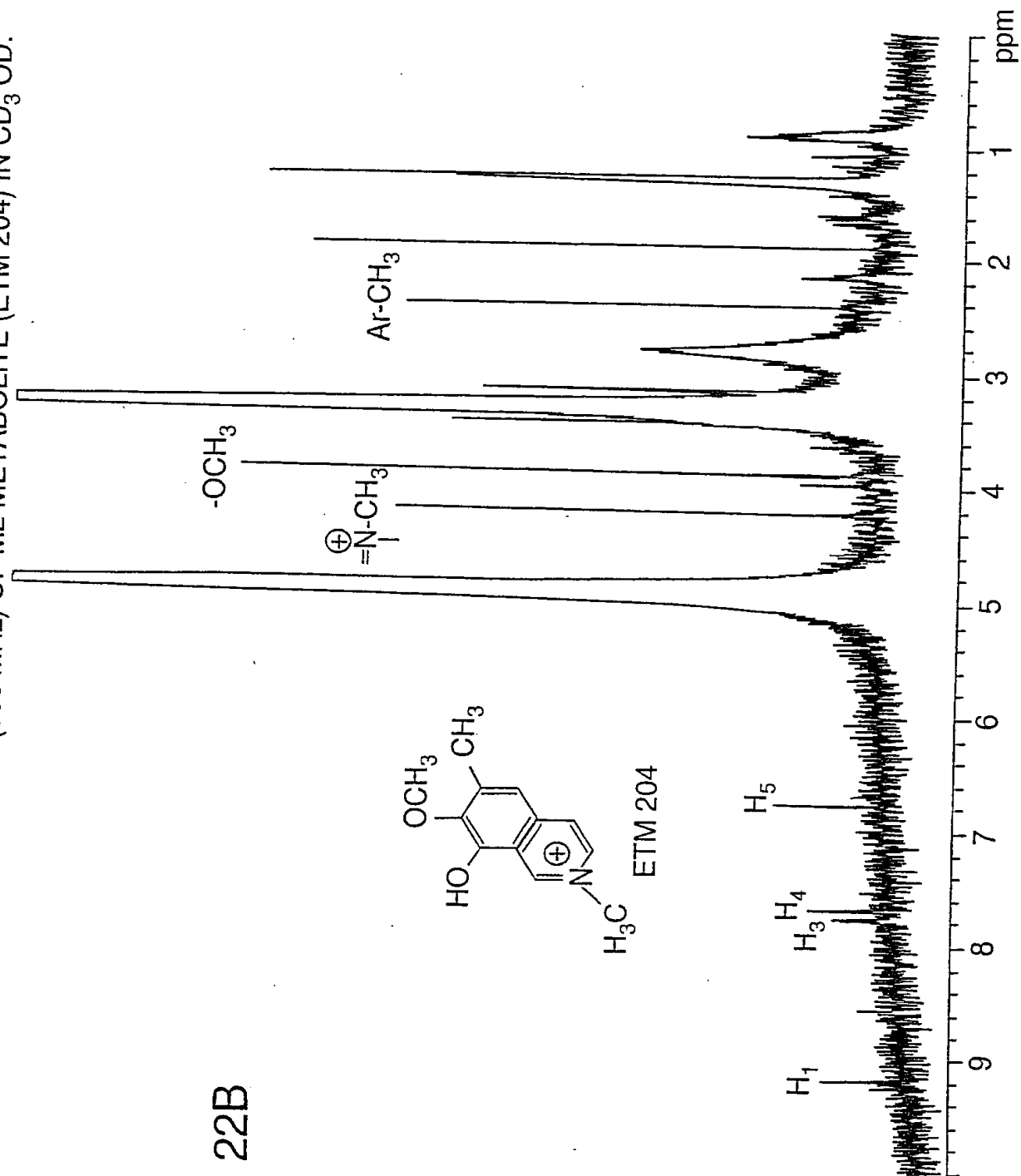
SAMPLE		DEC. & VT	
DATE	MAR 17 98	DFRQ	499.701
SOLVENT	METHANOL	DN	H1
FILE	EXP	DPWR	20
ACQUISITION		DOF	0
STFRQ	499.701	DM	NNN
TN	111	DMM	C
AT	4.003	DMF	200
NP	48000	DSEQ	
SW	5996.1	DRES	1.0
FB	3400	HOMO	N
BS	16	DEC2	
TPWR	63	DFRQ2	0
PW	4.5	DN2	
DL	0	DPWR2	1
TOF	0	DOF2	0
NT	3000	DM2	N
CT	1044	DMM2	C
ALOCK	N	DMF2	200
GAIN	NOT USED	DSEQ2	
FLAGS		DRES2	1.0
11	N	HOMO2	N
LN	N	PROCESSING	
DP	Y	LB	0.30
HS	NN	WTFIL	
DISPLAY		PROC	FT
SP	-0.1	FN	NOT USED
WP	4997.0	MATH	F
V\$	31752		
SC	0	WERR	
WC	250	WEXP	
HZMM	19.99	WBS	
LS	33.57	WNT	
RFL	2154.5		
RFP	1649.0		
TH	7		
INS	1.000		
NM	PH		

FIG. 22A

09971852-100301

¹H NMR SPECTRUM (500 MHz) OF M2 METABOLITE (ETM 204) IN CD₃ OD.

FIG. 22B



ESI/MS/MS SPECTRUM OF M2 METABOLITE (ETM 204).

M1, DAUGHT OF 204.2

M2D 1(0.109) Sm(Mn, 2x1.00): Cm(1:12)

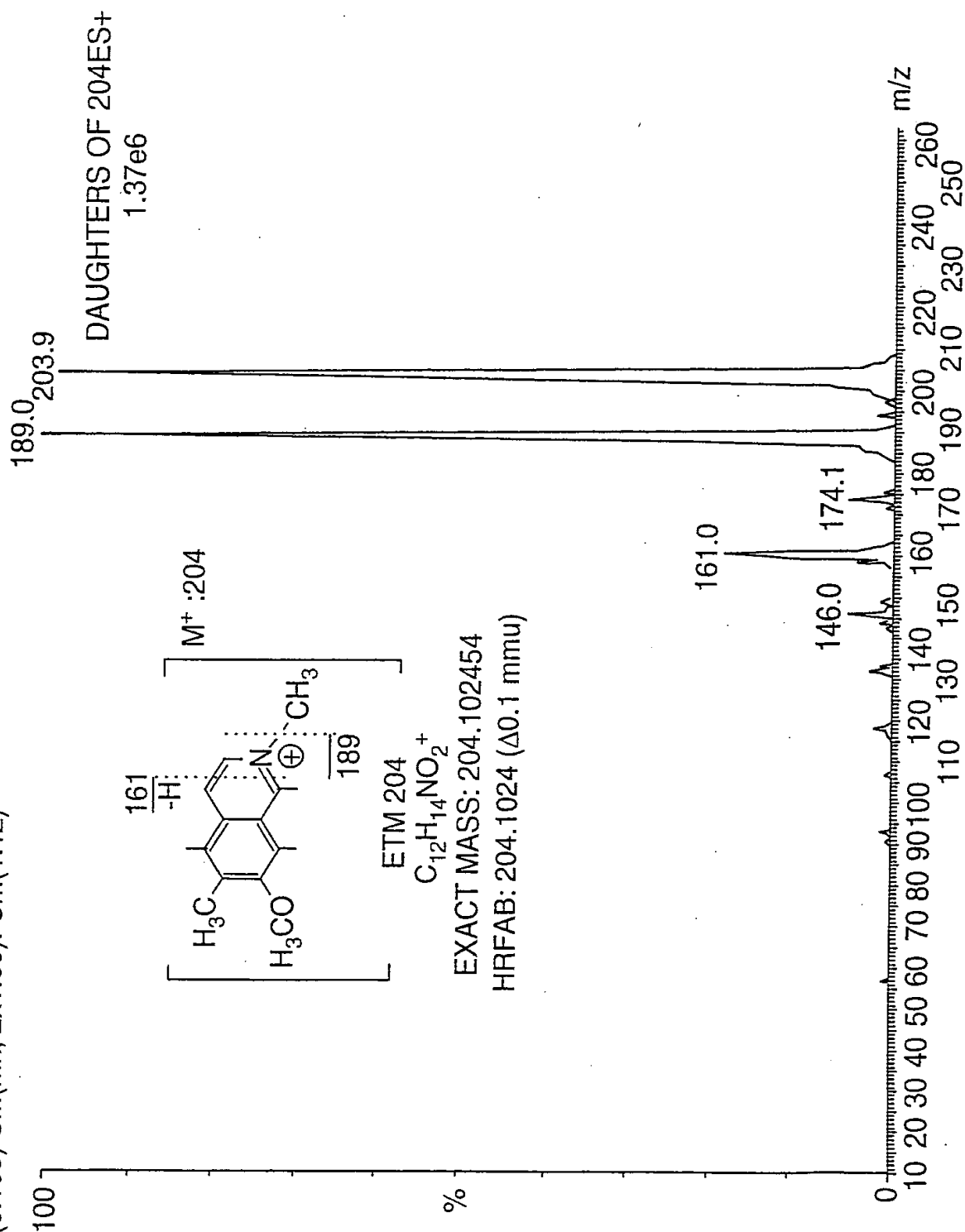


FIG. 23